

LISTING OF THE CLAIMS

The following listing of claims replaces all prior claim listing and versions in the application:

1.-11. (Canceled)

12. (Currently Amended) A short-pulse laser arrangement comprising:

a resonator comprising resonator components including a laser crystal, a plurality of mirrors including a pump beam coupling-in mirror, a laser beam out-coupling mirror and a multiple reflection telescope for enlarging an effective length of the resonator length, a first set of the resonator components having a positive dispersion;
said plurality of mirrors including dispersive mirrors with a negative dispersion for compensating in part the positive dispersion of the first set of the resonator components;
said resonator in operation having a positive averaged dispersion over an operating wavelength range,

wherein ~~the entire negative dispersion of the resonator is determined only by the dispersive mirrors with the negative dispersion~~ the averaged dispersion of the resonator is ≤ 100 fs².

13. (Canceled)

14. (Currently Amended) The short-pulse laser arrangement of claim 12, wherein the positive averaged dispersion is ~~in a range of 0 and~~ ≤ 50 fs².

15. (Previously Presented) The short-pulse laser arrangement of any one of claims 12 [[to]] or 14, wherein the multiple reflection telescope comprises at least one of the dispersive mirrors with the negative dispersion.

16. (Previously Presented) The short-pulse laser arrangement of claim 15, wherein all the mirrors of the resonator are the dispersive mirrors with the negative dispersion.

17. (Previously Presented) The short-pulse laser arrangement of any one of claims 12 [[to]] or 14, the resonator comprising a pair of glass wedges with positive dispersion configured to provide a supplementary dispersion fine adjustment.

18. (Previously Presented) The short-pulse laser arrangement of any one of claims 12 [[to]] or 14, wherein the laser arrangement is configured to provide passive mode-locking.

19. (Previously Presented) The short-pulse laser arrangement of claim 18, wherein a Kerr-lens mode-locking principle is used for the passive mode-locking.

20. (Previously Presented) The short-pulse laser arrangement of claim 18, comprising a saturable absorber positioned and configured to perform the passive mode-locking.

21. (New) The short-pulse laser arrangement of claim 12, wherein an entirety of the negative dispersion of the resonator is determined only by the dispersive mirrors with the negative dispersion.